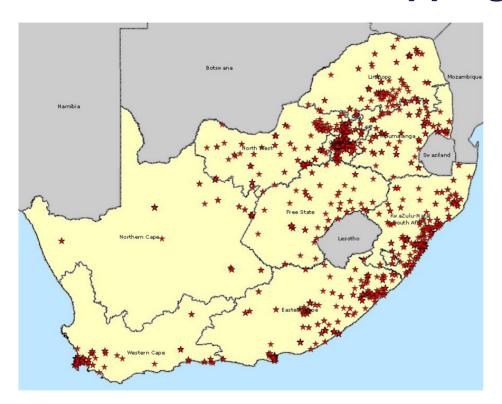
South Africa SHARING Website

Data Warehouse Site Mapping Component



Presented by Khulisa Management Services July 2006









How Do We Map Sites?

Linking a Site to an Existing Feature

- Every site needs to be referenced to it's physical location
- Can be linked to a physical address or town/city/village
- This places a site in the general area of the address
- Sites are attached to a health facility or place name using the site's name or location as a common feature
- Sites will inherit the location of this feature
- In this way, a site is linked to a heath facility or place, and can be locate using the co-ordinate of that existing feature.









How Do We Map Sites?

Applying Co-ordinates to Site

- Sites in the Data Warehouse are physically placed according to 3 different precisions:
 - Co-ordinate of existing Health Facility
 - Co-ordinate of existing Place (town/city/settlement)
 - Co-ordinate of actual Site (captured with GPS device)
- Co-ordinate of actual site is the most accurate placement, as it will reference the site to within 1 metre (depending on GPS accuracy).









How Do We Map Sites?

Plotting Sites in a GIS

- Co-ordinate provides physical location for site
- Using X and Y co-ordinates, site are plotted in physical space
- By creating a Geographic Information System (GIS), sites and their associated data can be used to map site information according to a user's needs.
- Sites that are mapped can also be used along with other layers (schools, roads, etc), and be displayed according to their relationships with these other layers.









How Site Data Is Stored

	SiteID	PrimeName	SubName	SiteName	RefLocation		ProgramArealD	ProgramAreaName	XDec	YDec
	64 Starfish		Heartbeat (HB)	Bakenberg	Potgietersrus	LP	5	OVC	29.01064	-24.17628
			TA Eastern Cape Provincial Department o		Bala	EC	9	TB/HIV		
	66 University De	esearch Cornoration: TB 1	TA KwaZulu-Natal Provincial Department (Ballito Clinic	Ballito	ΚZ	9	TB/HIV	31.20502	-29.52911
	_	evelopmer	nt	Bambanane	White River	MP	1	Counseling and Testing	31.0139	-25.32671
e I	nforma	tion orr	Project Support Association - South A	Bambanani HBC	Zaaiplaats	MP	1	Counseling and Testing	29.60861111	-25.80777778
· ·	oa	CTR	Project Support Association - South A	Bambanani HBC	Zaaiplaats	MP	10	Treatment	29.60861111	-25.80777778
	68 Family Healt	n International: CTR	South African Council of Churches	Bambanani HBC	Zaaiplaats	MP	2	HIV Care and Support	29.60861111	-25.80777778
	69 US Departm	ent of State: Small Grant:	s f	Bambisanani Project	Bizana	EC		HIV Care and Support	29.85416667	-30.85722222
	70 US Departme	ent of State: Small Grant:	s f	Bambisanani Project	Flagstaff	EC		HIV Care and Support	29,49767	-31.07432
		ent of State: Small Grant:		Bambisanani Project	Lusikisiki	EC		HIV Care and Support	29.60372	-31.36594
		ent of State: Small Grant:		Bambisanani Project	Tabankulu	EC		HIV Care and Support	29.29972222	-30.9575
		ent of State: Small Grants		Bambisanani Project	Umzimkhulu	KZ		HIV Care and Support	29.89134	-30.28115
			TA Eastern Cape Provincial Department o		Lusikisiki	EC		TB/HIV	29.60372	-31.36594
	75 John Snow, I		Limpopo Provincial Department of Hea		Namakgale	LP		HIV Prevention	31.03471	-23.93506
		· Educational Developmer		Baphumile Clinic	Umzumbe	KZ		PMTCT	30.35283	-30.55167
		phans of AIDS for Human		Bapsfontein	Kempton Park	GP		OVC	28.21524	-26.01183
-		ns University: Health Con		Bapsfontein Clinic	Kempton Park	GP		Counseling and Testing	28.21524	-26.01183
-		ns University: Health Con ns University: Health Con		Bapsfontein Clinic	Kempton Park	GP		HIV Prevention	28.21524	-26.01183
		ns University: Health Con ns University: Health Con		Bapsfontein Clinic	Kempton Park	GP		Treatment	28.21524	-26.01183
-		ent of State: Small Grant:		Baptist Children's Center	Potchefstroom	NW		OVC	27.05316	-26.70173
-			S I			MP				
_		my World Service		Barberton Corps	Barberton	MP		HIV Care and Support	31.04917	-25.77691
- 4		my World Service		Barberton Corps	Barberton			HIV Prevention	31.04917	-25.77691
_		my World Service		Barberton Corps	Barberton	MP		OVC	31.04917	-25.77691
_			nm Applied Broadcast Centre (ABC) Ulwa		Barberton	MP		HIV Prevention	31.04917	-25.77691
_	82 John Snow, I		Mpumalanga Provincial Department of		Barberton	MP		HIV Prevention	31.04189	-25.78144
- 4		t Sciences for Health: RP	M	Barberton Hospital	Barberton	MP		Ireatment	31.04189	-25.78144
_		earch Council: CHIP		Barberton Hospital	Barberton	MP		Strategic Information	31.04189	-25.78144
		my World Service		Barkerville Corps	Barkerville	EC		HIV Care and Support		-31.01722222
		my World Service		Barkerville Corps	Barkerville	EC		HIV Prevention		-31.01722222
		my World Service		Barkerville Corps	Barkerville	EC		OVC		-31.01722222
		Health & HIV Research		Bayview	Bayview	KZ		HIV Care and Support	30.91527	-29.92492
	84 Reproductive	Health & HIV Research	Ur	Bayview	Bayview	KZ		TB/HIV	30.91527	-29.92492
	85 Reproductive	Health & HIV Research	Ur	Bayview Sat	Bayview	KZ	2	HIV Care and Support	30.91527	-29.92492
	85 Reproductive	Health & HIV Research	Ur	Bayview Sat	Bayview	KZ	9	TB/HIV	30.91527	-29.92492
	86 National Dep	artment of Health / Easte	ern	Baziya Health center	Baziya	EC		HIV Care and Support		
	86 National Dep	artment of Health / Easte	ern	Baziya Health center	Baziya	EC	4	Laboratory Services	28.43305556	-31.61416667
	86 National Dep	artment of Health / Easte	ern	Baziya Health center	Baziya	EC	6	PMTCT	28.43305556	-31.61416667
- 4	86 National Dep	artment of Health / Easte	ern	Baziya Health center	Baziya	EC	8	Strategic Information	28.43305556	-31.61416667
	86 National Dep	artment of Health / Easte	ern	Baziya Health center	Baziya	EC	9	TB/HIV	28.43305556	-31.61416667
	86 National Dep	artment of Health / Easte	ern	Baziya Health center	Baziya	EC	10	Treatment	28.43305556	-31.61416667
	87 Reproductive	Health & HIV Research	Ur	Beatrice Str	Beatrice Str, Du	rt KZ	2	HIV Care and Support		
	87 Reproductive	Health & HIV Research	Ur	Beatrice Str	Beatrice Str. Du		9	TB/HIV		
		ns University: Health Con		Beaufort West Clinic	Beaufort West	WC	1	Counseling and Testing	22.57988	-32.30712
		ns University: Health Con		Beaufort West Clinic	Beaufort West	WC		HIV Prevention		
		ns University: Health Con		Beaufort West Clinic	Beaufort West	WC		Treatment		
_		ns University: Health Con		Bekkersdal West Clinic	Bekkersdal	GP		Counseling and Testing	Co-	ordina
		ns University: Health Con ns University: Health Con		Bekkersdal West Clinic	Bekkersdal	GP		HIV Prevention		J. 41114
		ns University: Health Con ns University: Health Con		Bekkersdal West Clinic	Bekkersdal	GP		Treatment	27.69733	-26.28278
_	90 John Snow, I		Catholic Relief Services	Bela Bela	Bela Bela	LP		Treatment	28.31617	-24.88093
			TA Limpopo Provincial Department of Hea		Belabela	LP		TB/HIV	28.29551	-24.88281
		esearch Corporation, 16 i earch Council: CHIP	La minhoho Liovillolai Dehaitillelit ol Hea	Bela Bela Hospital	Bela Bela	LP		Strategic Information	28.31617	-24.88093
_			TA Limnono Brovincial Donartment of Hea		Bela Dela Bolobolo	LP LD		TR/HIV	20.31017	-24.00000









How Site Data Is Stored

	Name	Province	XDec	YDec
•	17 Esselen Street Clinic	GP	28.045	-26.1909
	4TH Avenue Clinic	GP	27.9056	-26.2662
	80 Albert Street Clinic	GP	28.0498	-26.2072
	8 SAI (SANDF) Clinic	NC	21.25858	-28.43767
	Aandrus Clinic	FS	26.65999	-27.77903
	Aan-het-Pad Clinic	WC	18.855	-33.91111
	Abaqulusi School Health Service	KZ		
	Abbotsdale Satellite Clinic	WC	18.67611	-33.49
	Abbotspoort Clinic	LP	28.08689	-23.45022
	Abbotspoort Mobile	LP	28.08618	-23.45065
	Aberdeen Hospital	EC	24.06093	-32.48621
100	Aberdeen Mobile	EC	24.05321	-32.47671
	Aberdeen Satellite Clinic	EC	24.06438	-32.47816
	Acaciavale Clinic	KZ	29.77196	-28.56512
	Ackeer Street Mobile	EC	25.49539	-33.87327
	Ackerville Municipal Clinic	MP	29.17433	-25.86603
	Addington Hospital	KZ	31.04179	-29.86186
	Addo Clinic	EC	25.54403	-33.39547
	Addo Enon Satellite Clinic	EC	25.68981	-33.54608
	Addo Mobile 1	EC	25.54403	-33.39547
	Addo Mobile 2	EC	25.54403	-33.39547
	Adelaide Clinic	EC	26.17441	-32.42306
	Adelaide Gateway Clinic	EC	26.29404	-32.69994
10	Adelaide Hospital	EC	26.29427	-32.70092
	Adelaide Mobile	EC	26.2963	-32.70812
	Adelaide Tambo Clinic	GP	28.2334	-25.5741
	AD Keet Clinic	EC	24.91831	-34.06025
12	Adriaanse Clinic	WC	18.58464	-33.93802
	AE Haviland Memorial Clinic	KZ	30.0449	-28.8599
	Aeroville Clinic	EC	25.6035	-32.74962
	Afsondering Clinic	EC	28.94812	-30.17988
	Agatha Mobile	LP	30.16309	-23.83519
	Aggeneys Clinic	NC	18.83579	-29.23375
	Agincourt CHC	LP	31.26075	-24.81243
	Agisanang Clinic	NW	25.82387	-26.5583
	Agnes Rest Clinic	EC	27.0484	-31.69072
	Agriqwa Farms Mobile	FS	27.8435	-28.02479
	Alabama 1 Clinic	NW	26.57945	-26.86403
	Alahama 2 Clinic	NIVA/	26 57995	-26 86503



Health Facility Co-ordinates

Place Name Co-ordinates



Name	Province	XDec	YDec
▶ Aankoms	MP	30.86824	-26.16315
Aapieshoek	KZ	31.36053	-27.41589
Abakwa Cele	KZ	31.09512	-29.03254
Abashumi	KZ	31.38855	-29.02397
Abbotsdale	WC	18.6748	-33.48425
Abbotsford	EC	27.91903	-32.96094
Abbotspoort/Dikgopeng	LP	28.08928	-23.44962
Abebhuzi	KZ	30.62496	-29.61649
Abejuti	KZ	30.95186	-29.44327
Aberdeen	EC	24.04974	-32.47647
Aberdeen (Rural)	EC	23.8396	-32.62097
Abetshawe AA	EC	29.89665	-30.87069
Ackerville Informal	MP	29.18721	-25.86837
Acornhoek	LP	31.07246	-24.60971
Acton Homes	KZ	29.41208	-28.63842
Actonville	GP	28.30655	-26.21374
Adamayview	NW	26.68968	-26.84943
Adams College	KZ	30.81602	-30.03096
Adams Mission	KZ	30.80067	-30.03502
Addney	LP	28.94365	-23.22022
Addo	EC	25.69042	-33.54657
Adelaide	EC	26.31356	-32.68893
Adelaide (Rural)	EC	26.37037	-32.6635
Adriaanse	WC	18.58914	-33.93961
Aerorand	MP	29.44722	-25.79278
Aeroton	GP	27.97786	-26.25654
Aeroville	EC	25.60278	-32.74778
Africa Top	KZ	30.05079	-30.29482
Afrika	KZ	30.94758	-29.7024
Aftoni	LP	30.15736	-22.76168
Agavia	GP	27.74721	-26.09008
Aggeneys	NC	18.84237	-29.24446
Agincourt	LP	31.22606	-24.82327
Agisanang	NW	25.82451	-26.55955
Airdlin	GP	28.06381	-26.0295
Air Force Base	FS	26.22866	-29.12122
Airport	KZ	30.94563	-29.96399
AK	ΚZ	31.02148	-29.84083
Akasia	GP	28 10804	-25 67306









Site GPS Co-ordinates

The Format of GPS Co-ordinates

- A manually captured GPS co-ordinate provides the most accurate means of placing a site
- Can be captures in either of the following formats:
 - Degrees, Minutes, Seconds
 - Eg. 26° 25' 19" S 31° 30' 58" E
 - Decimal Degrees
 - Eg. -26.422, 31.516
- Either format can be captured for sites in the Data Warehouse,
 but most GPS units will output co-ordinates in the first format.









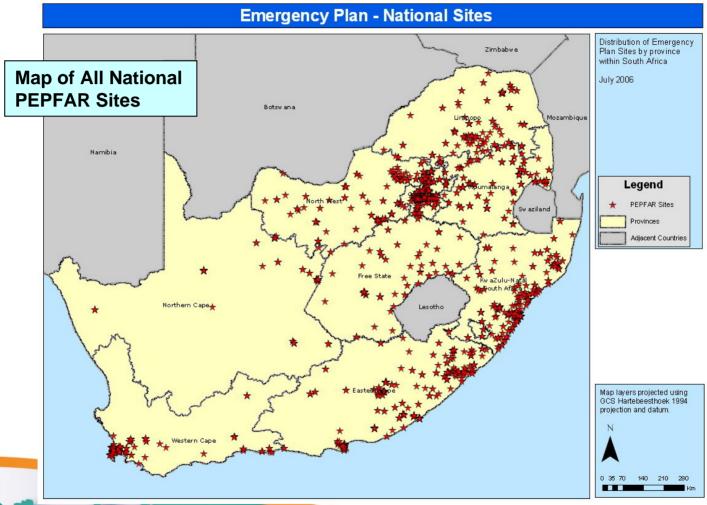
What Can We Do With Mapped Sites?









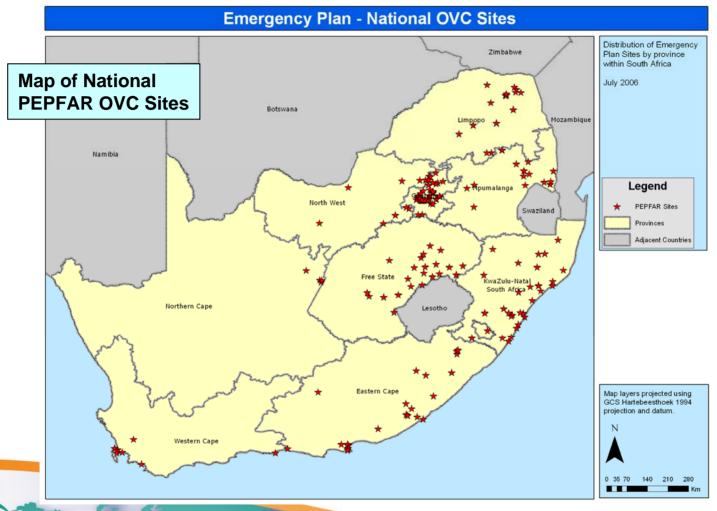








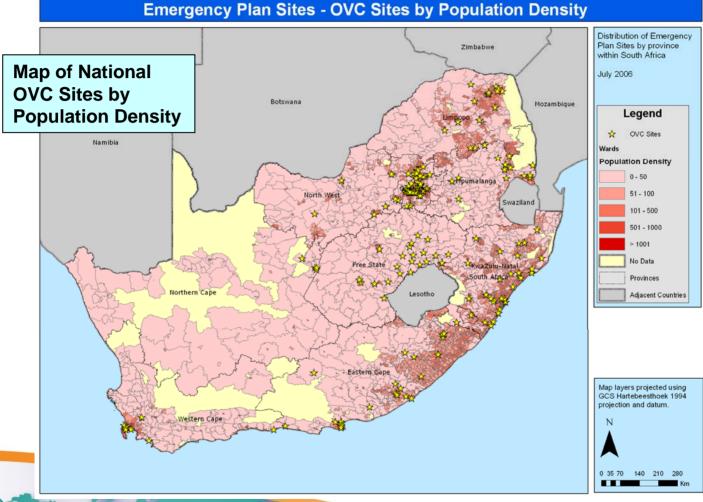










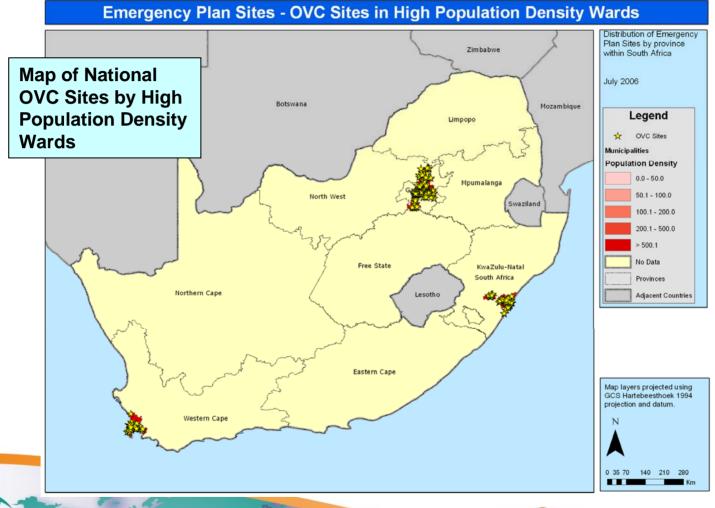








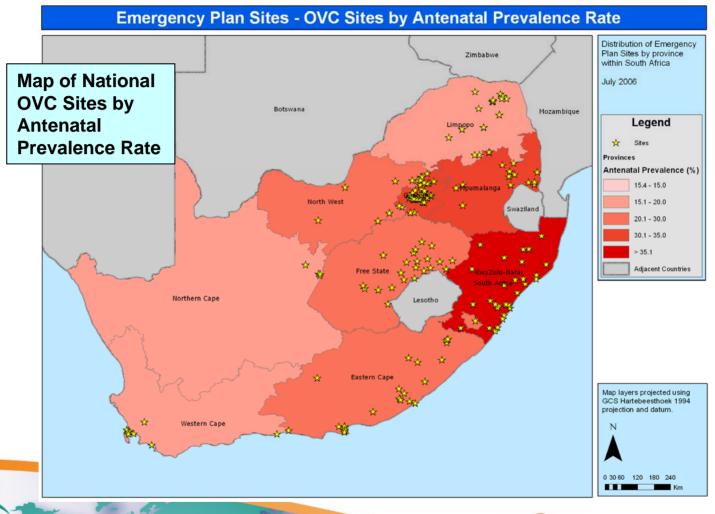








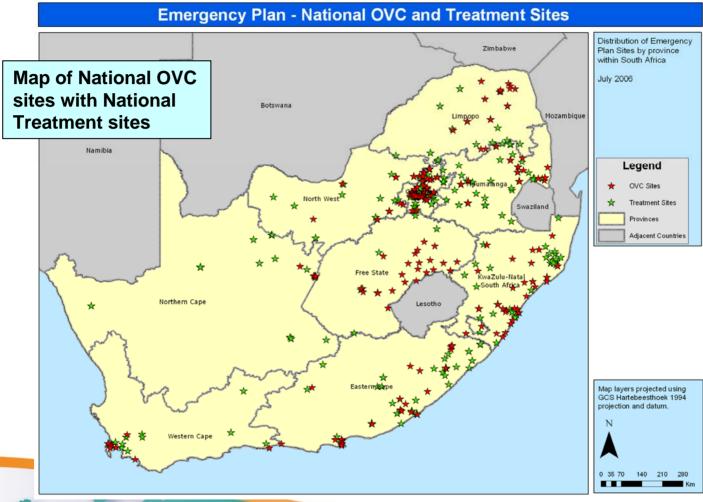










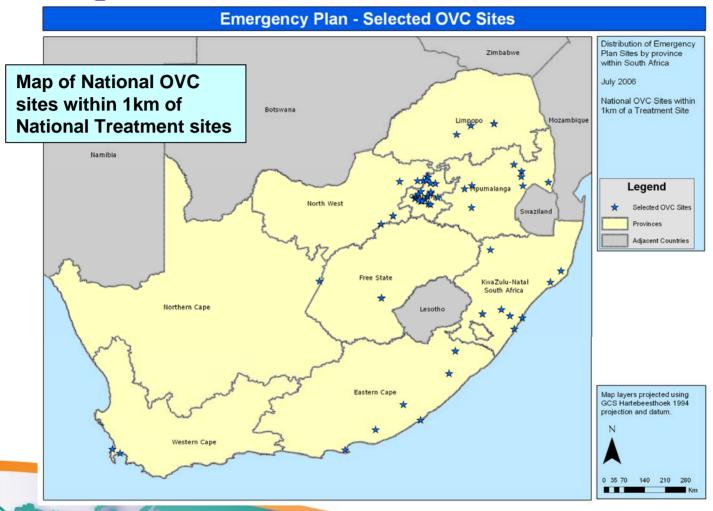








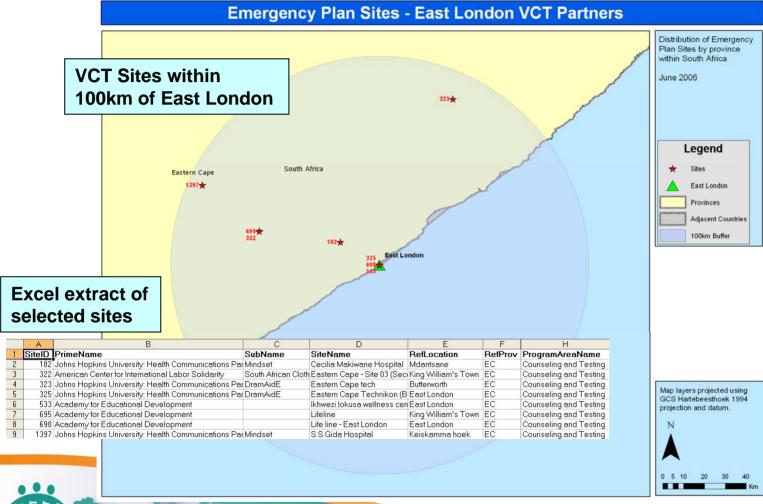








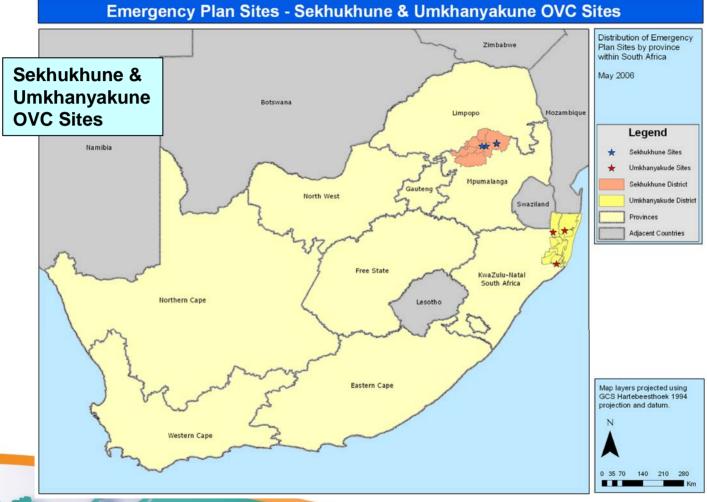










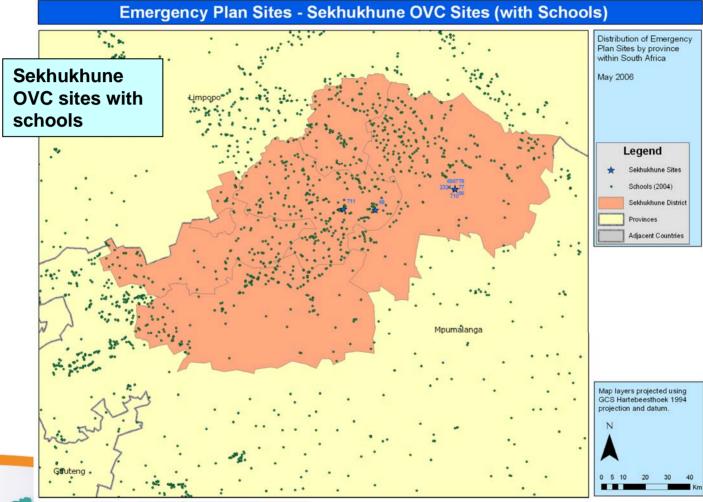




























Capturing Site Data On The DW

- Entry form is being developed into Data Warehouse to capture site data in formats discussed earlier
- Will allow for Partners to verify that their site location and information are correct
- This will improve the accuracy of current DW mapping functionality
- Ultimately, this will allow for an integrated online mapping facility.

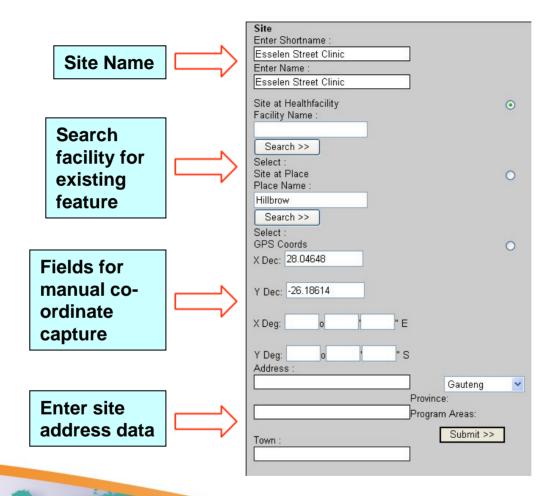








Example of Current DW Site Form











Wrap-Up

Question and Answers



Thank You







